

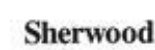


Guides for Pclr Program

Supporting LAD-500/LAD-500(R) model



Sherwood America, Inc. <http://www.sherwoodamerica.com>
Sherwood Electronics Europe GMBH <http://www.sherwood.de>



[Http://www.etrronics.co.kr](http://www.etrronics.co.kr)
ETRONICS Corp.

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1. What is Pclr?

This program offers the function that can control the application program or system in the user's computer through any remote control unit whose protocol is compatible with.



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1.1 System requirements

When using the Pclr program offered with this product, the following hardware and software requirements are needed.

* Hardware requirements



Intel Pentium 233MMX or higher



64MB RAM or higher



CD-ROM drive

* Software requirements

– Microsoft Windows 98/Me/2000/XP



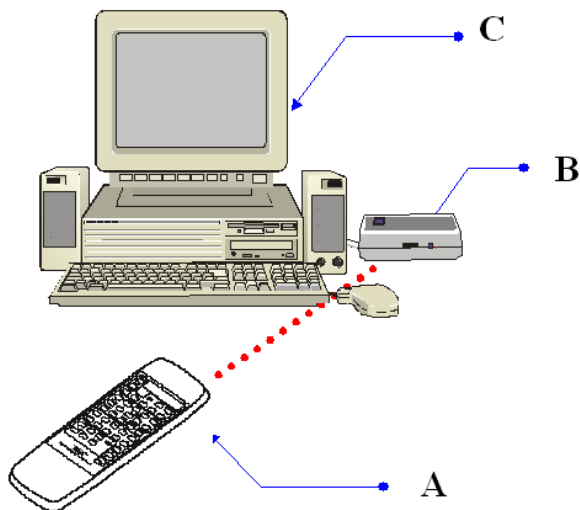
Pclr program can be operated in the computer that has pre-installed operating system.

-  Microsoft Internet Explorer (Version 4.01 Service Pack 2 or later)

– Macintosh of Apple Computer, Inc. cannot be supported.

1.2 Practical application

1.2.1 For desktop computer



Connect the USB downloader(LAD-500)(B) to PC's USB port and

prepare the normal home remote control(A). This program controls the assigned program or system key when received some signal from the remote control, and the Music playing software(Winamp, etc.) or PC DVD playing program(PowerDVD, etc.) is controlled with remote control. You can make your PC to audio or DVD player that remotely controlled.

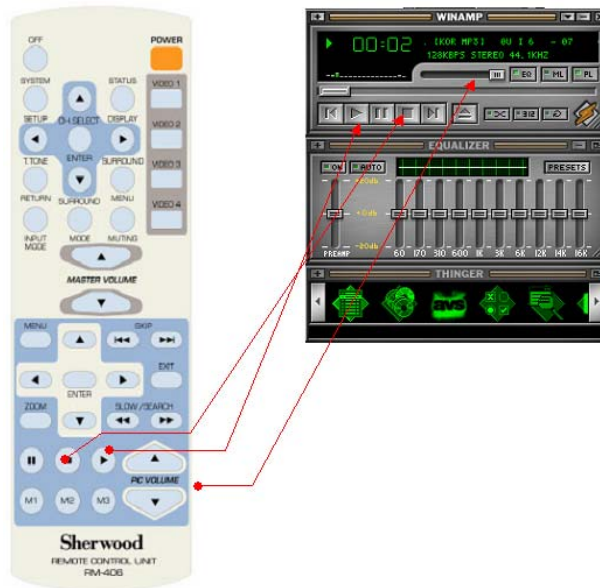
1.2.2 For notebook computer

The reader presents the data on the notebook computer in business meeting, reading a paper, news product demonstration, etc. This process can be remotely controlled by Pclr, and make the notebook computer into the best presentation unit by using various specific functions of this program.



1.3 Roles of Pclr

1.3.1 Signal translation



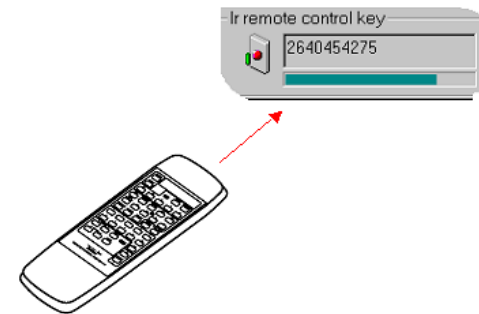
The received remote control signal through the sensor has its own value according to the function. All the electronics products with remote control receive and read this value and work to that. But the PC cannot read the signal, so Pclr program translates it readable.

Through this process, Pclr connects the remote control key and the certain function key of application program, that can control the application program without mouse or keyboard handling.

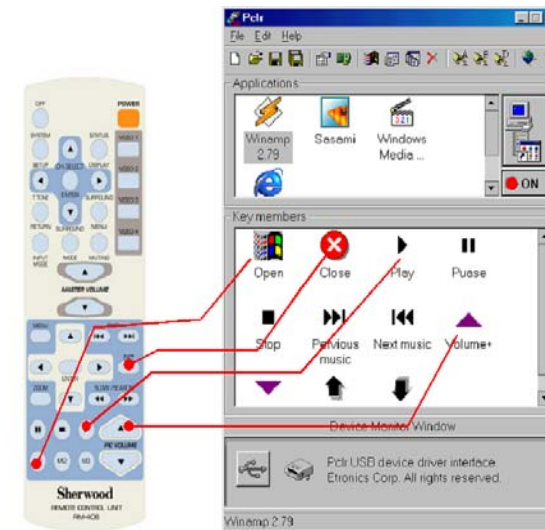
1.3.2 Key edit

A. Assigning the remote control signal value

When pressing the button on the remote control toward sensor, the corresponding signal value is assigned. This program saves the assigned key and maps to the program key.,



B. Key mapping



Assign the keyboard or mouse key to corresponding remote control key. Ex.) If the play key of Winamp is 'X', select 'X' in the virtual keyboard in this program, name it 'play', and assign corresponding remote control key.

The key mapping like this is made to command file, and can share within the users. File and data sharing are serviced in the website of Etronics Corp.

1.3.3 Receptor of Pclr

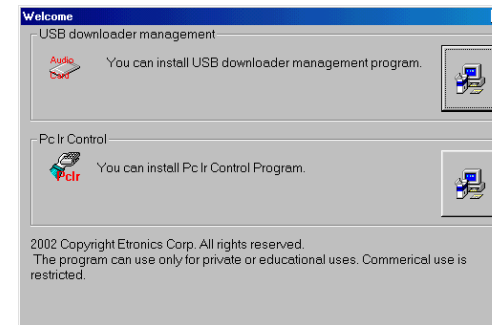
Pclr program supports various standard interface. The key information through the interface of RS232C or USB etc. is handled according to character of the receptor and can be used without any change.

2. Using Pclr program

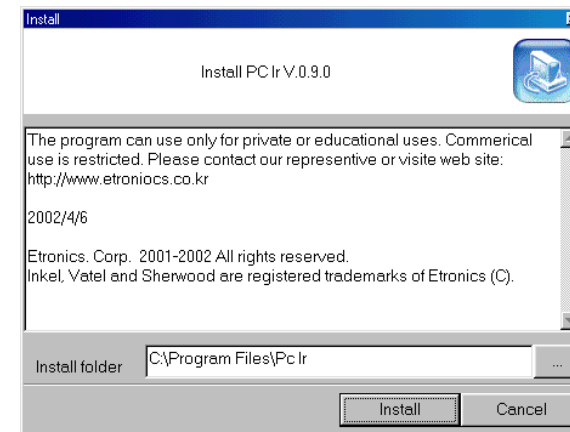
2.1 Installation

Open the file '**Welcome.exe**' in the installation CD. Then window is displayed which can install USB downloader management program and Pclr control program, the additional software package.

Notice: before doing above, the USB driver has to have been installed. If not, Pclr program does not execute.



Start the Pclr control program installation.



Select the setup button in Pclr control, then intallation is started as above. Click '**Install**', then the installation is automatically started. After finishing installation, shortcuts are created on the Windows start menu and desktop.

2.2 Program following

We will learn the two important function, “**Add application**” and “**Add Ir Key mapping**” with commonly used application program.

Example : Winamp of Nullsoft, the well-known music program

A. Find the hot key of the application program will be controlled.

Pclr program replaces the keyboard or mouse work, so you need to know the hot keys of application program that will be controlled.



As shown above picture, the Play key of Winamp is set to X, Pause is set to C, Stop is set to V, Next is set to B, and Previous is set to Z. Take notes of these.

B. Select remote control will be used.

C. Add the application will be controlled.

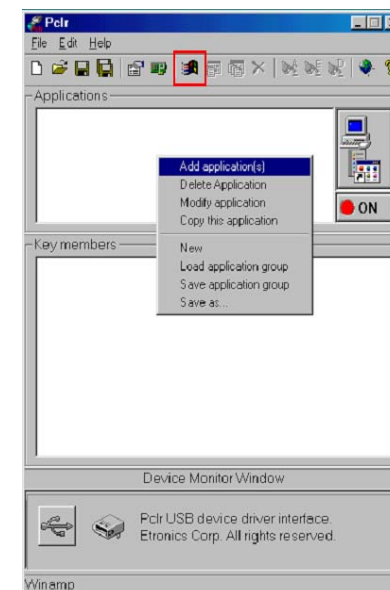
(This process consists of 4 steps)

Step 1 : Open the Winamp.

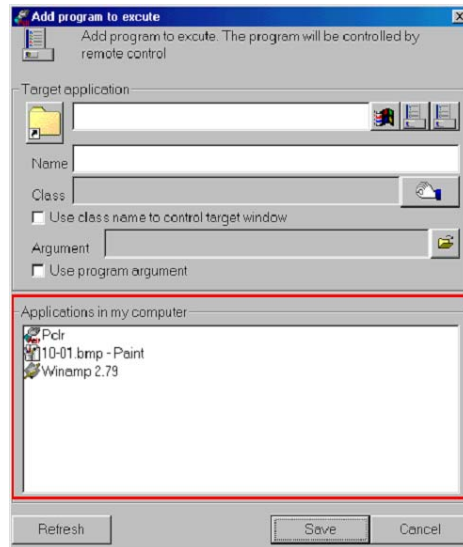
To control the Winamp, you need to know the characters and location of it.

Step 2 : Click  button on the toolbar or select the program group

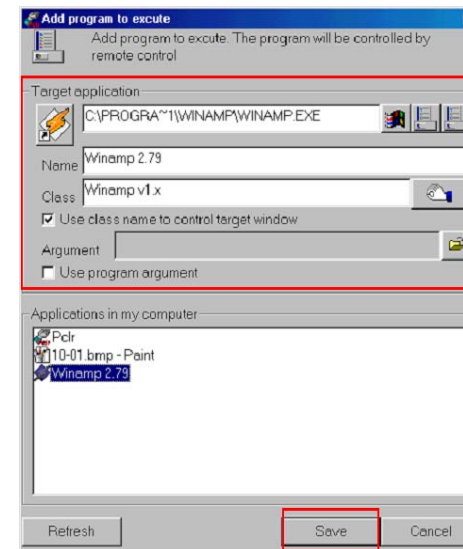
with mouse and select “**Add application(s)**” in the popup menu when right-click the Applications window.



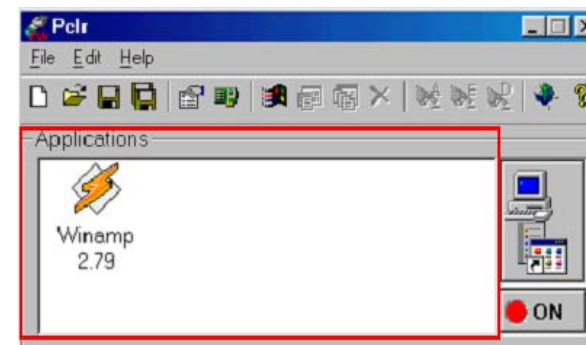
Step 3 : “Add program to execute” window is displayed.



Double-click “Winamp” in the list of ‘Applications in my computer’ window, then the blank spaces of Target application are filled with the characters of Winamp.



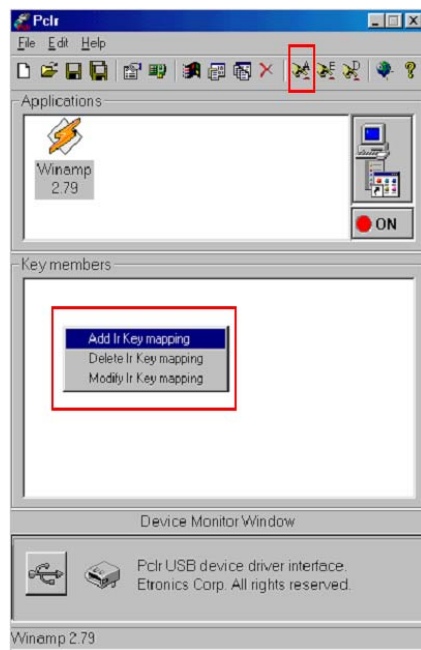
Step 4 : Click “Save”, and you can see that the Winamp is added in the Applications group. Now Adding Winamp program is finished.



D. Add key mapping

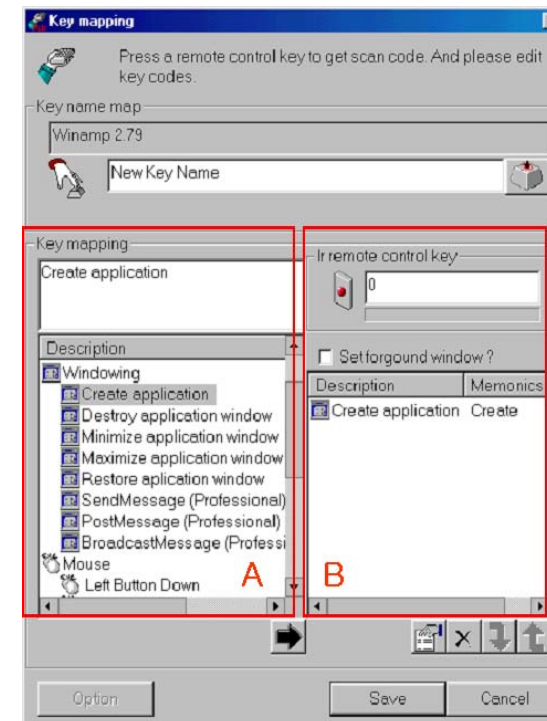
(This process consists of 4 steps. Do these after adding Winamp)

Step 1: Select Winamp in the Applications group and  button on the toolbar or select “Add Ir key mapping” in the popup menu when right-click the Key members window.



Step 2 : Add Open/Exit key

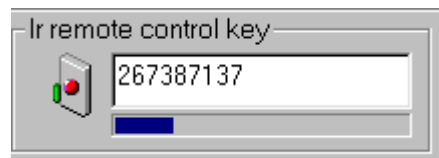
Add “**Create application**” for opening the corresponding application program. Double-click the “**Create application**” in Key mapping window(A), and make sure that the key is added in the right window(B).



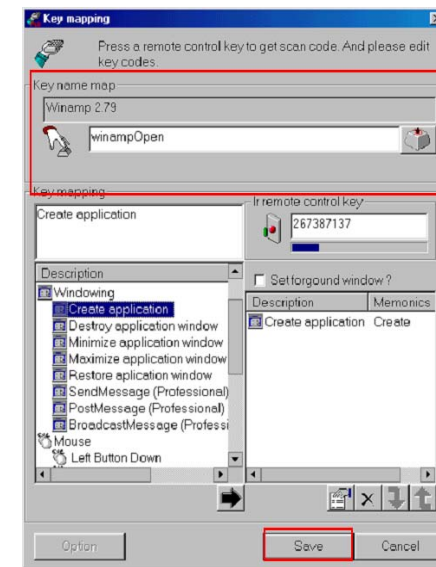
When mapping keys, all the programs are always needed 2 control keys (Open and Exit), because they are the program’s own menus and cannot be controlled with keyboard or mouse.

Step 3 : Add the corresponding remote control key.

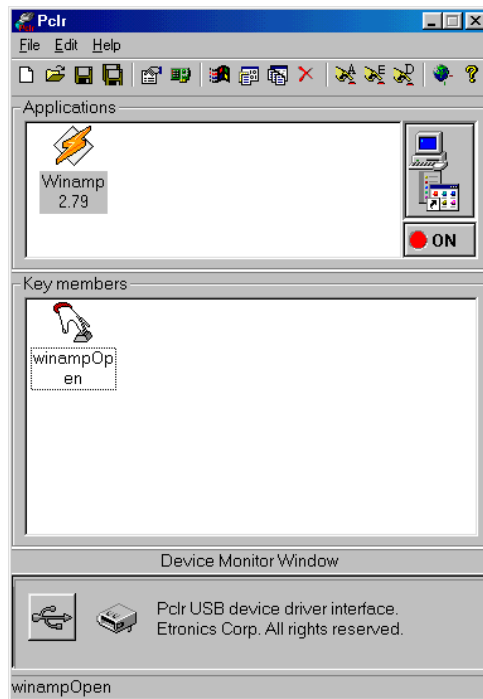
Press the button of remote control that will be used for opening the Winamp. Be sure whether the number of that button is displayed in Ir remote control key window.



Step 4 : Write “winampOpen” in Key name map window, and appoint the needed item for adding that control key. Click the Save button.

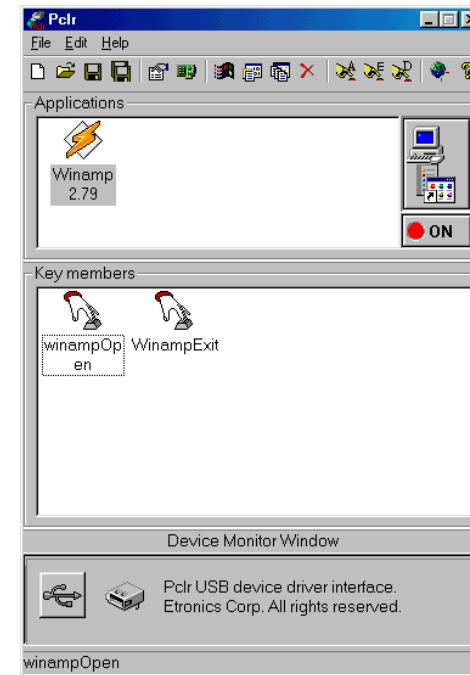


Now the 'winampOpen' key is added.



Add the **"Destroy application window"** key in the same manner.

(Select Winamp in the program group -> Add Ir key mapping -> Double-click **"Destroy application window"** in the Key mapping window -> Add corresponding remote control key -> Save)

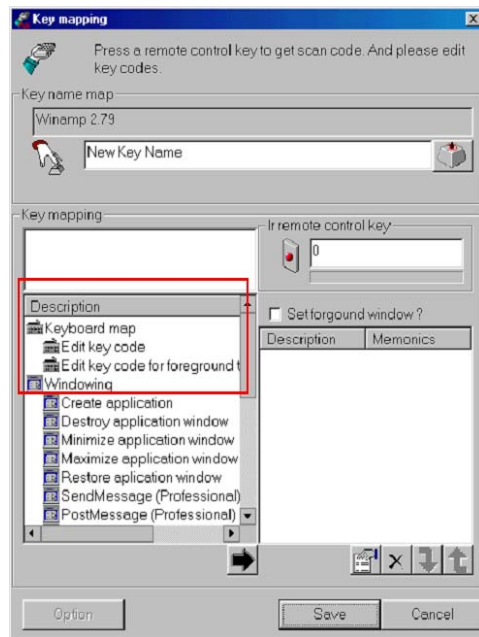


Now let's add the control key related to play.

Step 1 : Select Winamp in the program group -> Select  button on the toolbar or select **"Add Ir key mapping"** in the popup menu when right-click the Key members window.

Step 2 : Add control key

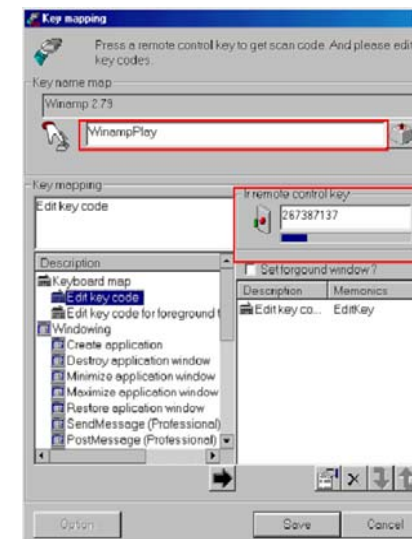
When Key mapping window is displayed, select Keyboard map and double-click the Edit key code.



Then a virtual keyboard is shown. Click 'X' (the 'Play' hotkey of Winamp) on that. Make sure 'Key:X' is displayed in the Key codes window, then click OK



Step 3 : After add the key name("WinampPlay") and corresponding remote control key, click Save.



Repeat above steps until all the necessary control keys are added.

Through the above processes, you can edit the Winamp control key group which is controlled by remote control as shown below.

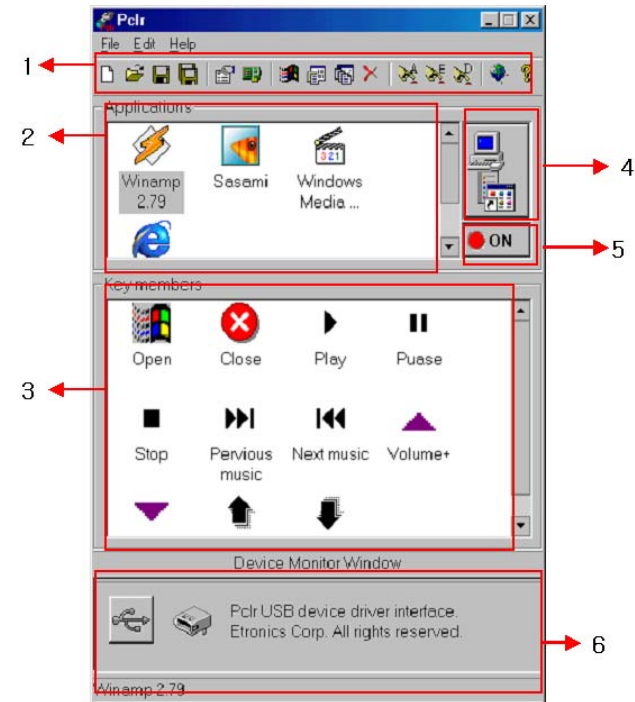


(To change icons, refer to '3. Details of program functions')

3. Details of Pclr program

The functions of Pclr will be explained in this chapter.

Pclr program consists of 6 parts.

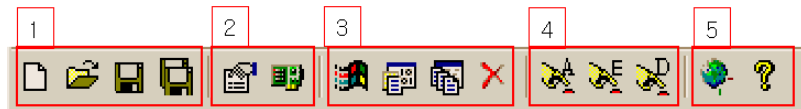


1. Toolbar : for using basic functions easily.
2. Applications : program list that will be remote-controlled
3. Key members : control key list that will control the corresponding program.

4. System wide settings : controls the system(mouse/keyboard/system) with remote control, not the application programs.
5. Enable/Disable Pclr : makes Pclr to work / not to work.
6. Device Monitor window : shows device interface of the present remote controlling application program.

3.1. Descriptions of display

1) Toolbar



Toolbar consists of 5 groups.

1st, menus about program group

- Make new program group / Load an program group / Save an program group / Save an program group with another file name.

2nd, menus about option

- Device setup / Startup setting / Keyboard, mouse setup

3rd, menus about editing program list

- Add / Copy / Modify / Delete program

4th, menus about control keys

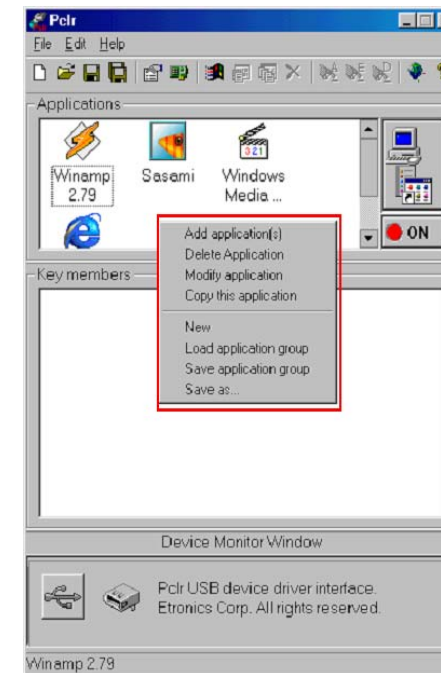
- Add / Modify / Delete key member

5th, Internet and information

- internet connection / information service

2) Applications

This contains remote-controlled application program list. There are several menus about this window as shown below.



Add application(s) : add application program(s) will be controlled.

Delete application : delete the added application program.

Modify application : modify the information of added application program.

Copy this application : copy the added application program.

New : delete the present added program and add new one.

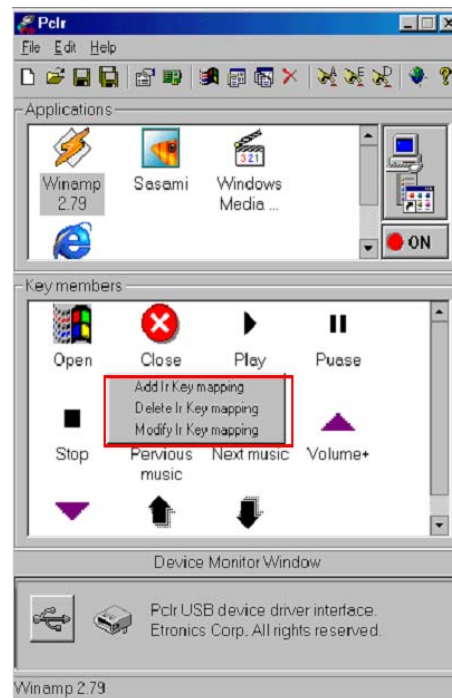
Load application group : open the saved program group.

Save application group : save the present program group into a file.

Save as : save the present program group with another file name.
(default: "Default.irm")

3) Key members

This contains list of control keys of corresponding application program.



Add Ir key mapping : add contrl keys of corresponding program.

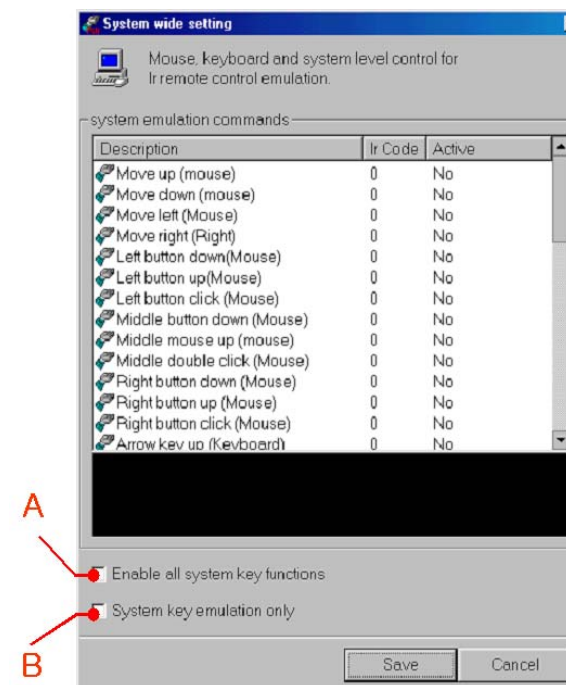
Delete Ir Key mapping : delete the added control key(s).

Modify Ir Key mapping : modify the information of control key(s)

4) System wide setting

Keyboard/mouse/system keys can be controlled with IR remote control.

System key does not control a specific application program, but affect the enabled program in window.



A. make all system key functions to enable.

B. let Pclr only control system, not application program.

5) Enable/Disable Pclr remote controller

Turn the button ON or OFF to work or not work the program.

When , inactivated mark is displayed at tray - the right below of user's window.



6) Device interface

Shows the present connected device(s) (ex. USB or RS-232C)

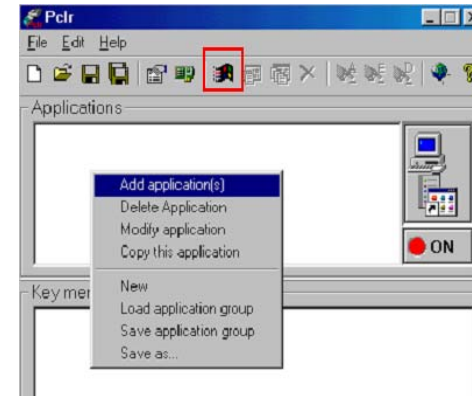


3.2 Using Pclr program

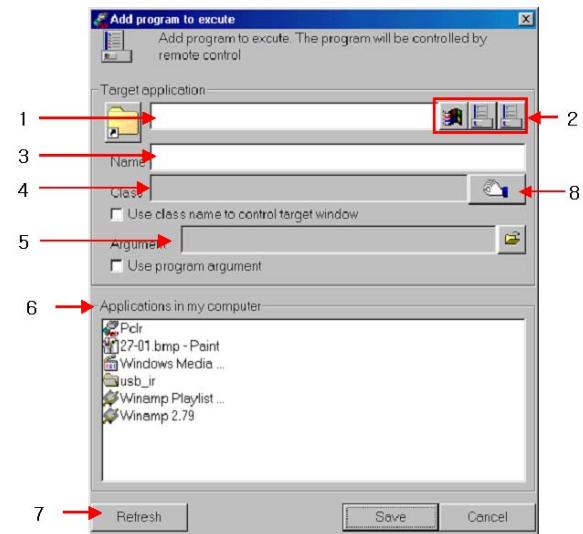
1) Add application(s)

A. Click  on the toolbar or select “Add application(s)” in the

popup menu when right-click the Applications window.



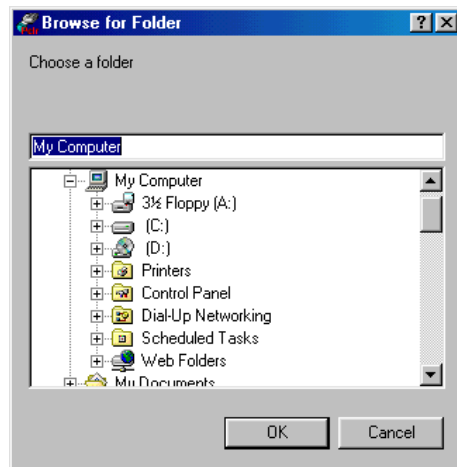
B. Add program to execute



- 1 – displays the location of executive program file
- 2 – used when finding the executive program directly
- 3 – write the program name
- 4 – class name of the executive program
- 5 – arguments when executing a program
- 6 – list of present executing program on the user's window
- 7 – read again the program list
- 8 – used when finding the class of corresponding program

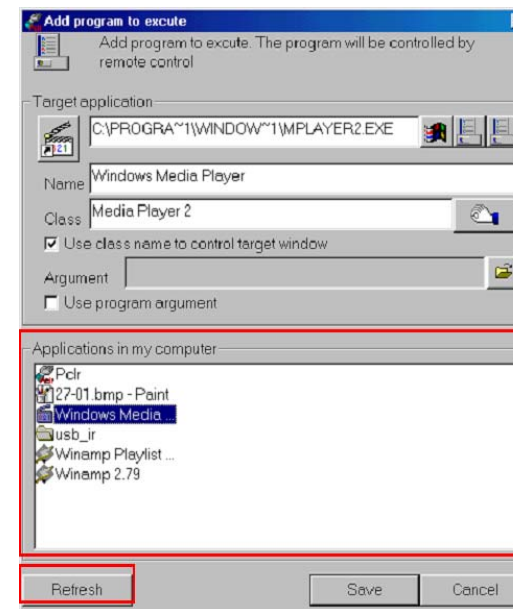
There are two ways that add the program to be controlled.

1st, select the buttons  and find location of that program directly. (the buttons work differently each other).



2nd, select the present executing program in the 'Applications in my computer' window.

The list in 'Applications in my computer' window is the one of present executing programs. Open the program to add and click '**Refresh**' button, then find it in the list. If you double-click the corresponding program, the informations about it are filled in the blank spaces.

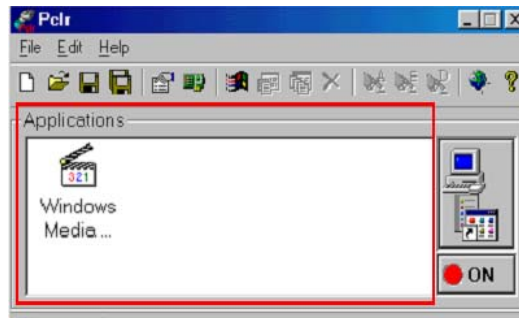


C. Click 'Save'.

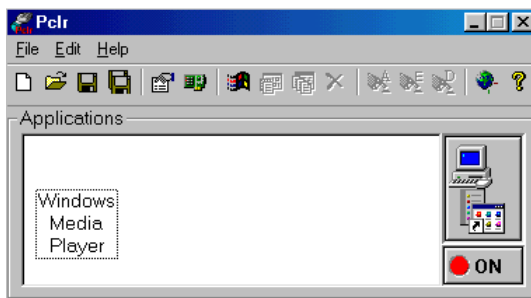


The hand mark () makes it easy to find the class name of corresponding program. Click hand mark button and drag it to the program you want, you can find the class name of it. If you use class name, you can control the program more exactly.

D. Now the program is added in the Applications window and the icon is displayed.

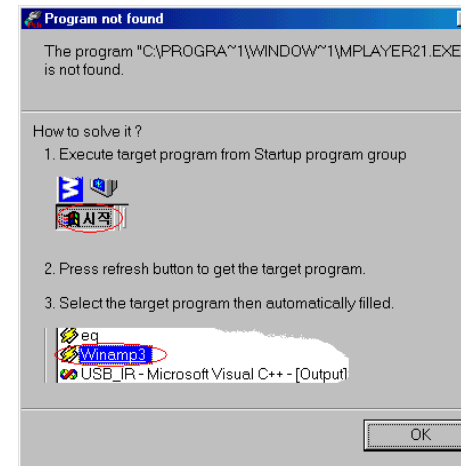


If the program icon is not shown and only program name after adding application,



This case is caused from that the program's name or location is not appointed correctly.

Select **“Modify application”** or double-click the program icon, then ‘Program not found’ window is displayed.



1. Execute the target program.
2. Click Refresh button to check that the target program is in the list.
3. Double-click the target program.

2) Add Ir key member

A. Click  button on the toolbar or select **“Add Ir key mapping”** in the popup menu when right-click Key members window.



1 – target program's name

2 – key name to be added

3 – description of selected key

4 – list of keyboard/mouse/system control keys

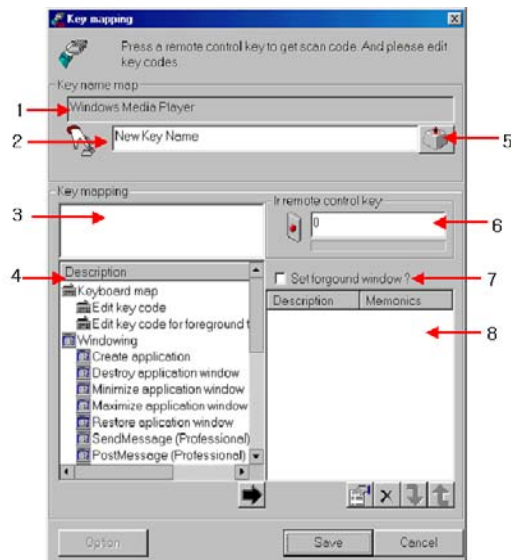
5 – used when change the icon.

6 – the remote control signal value that will be connected to control key.

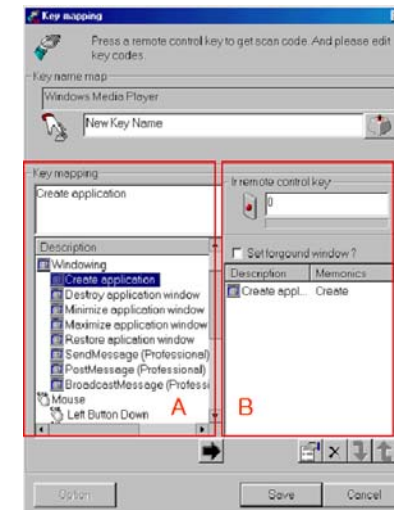
7 – this is used in case of that let the target program display on foreground when it remote-controlled.

8 – list of selected keys

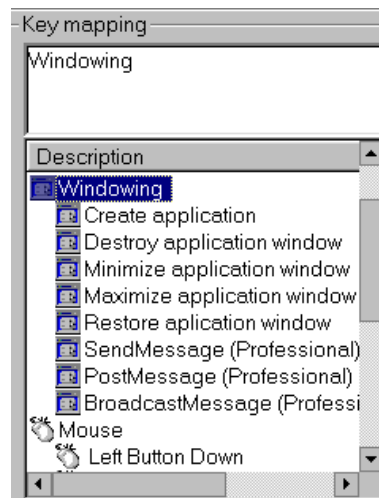
B. Fill the necessary items to add the key.



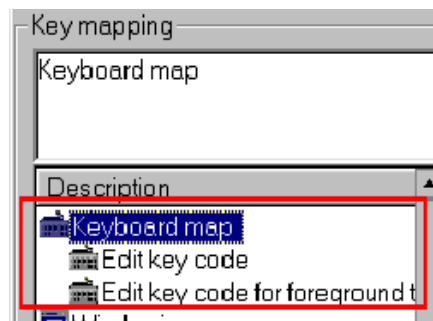
C. Double-click the key to be added in window A, and make sure the key is added on window B.



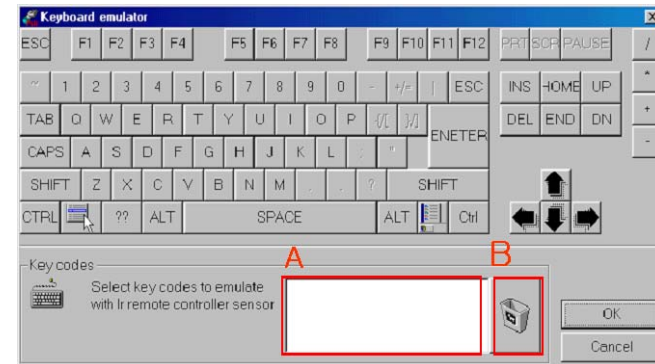
D. When mapping keys, all the programs are always needed 2 control keys (Open and Exit), because they are the program's own menus and cannot be controlled with keyboard or mouse.



E. When mapping the keyboard, use the 'Keyboard map'



Select **Edit key code / Edit key code for foreground target**, then virtual keyboard is displayed.

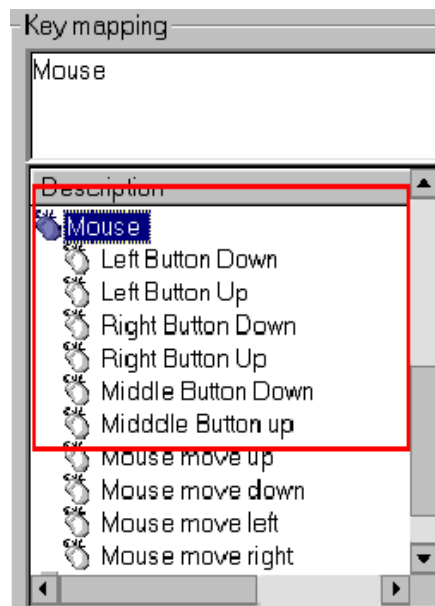


Select key and make sure that the key is displayed in the key code window (A). If you want to delete the key in window A, click the button on the side (B).

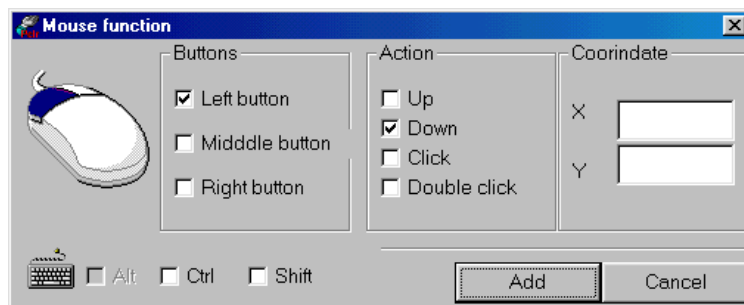
'Edit key code' : transmits the signal value to target program, so can make to control it exactly.

'Edit key code for foreground target' : transmits the signal value to foreground enabled program. The program that cannot be controlled with 'Edit key code' can be controlled with this, but a result can occur that are not intended.

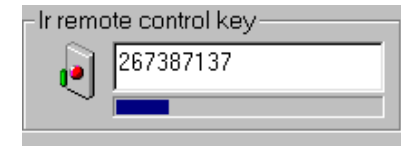
F. When mapping the mouse,



Select the key related to mouse movements you want, then Mouse function window is displayed.



G. After mapping keyboard/mouse, add Ir remote control button you want to connect by pressing it toward USB downloader's Ir sensor.



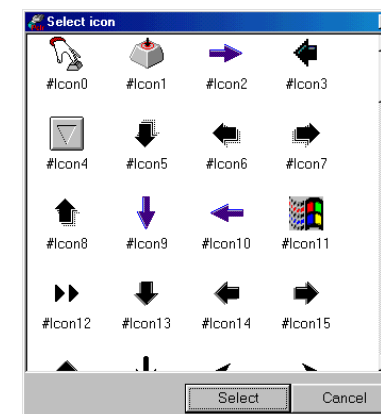
When pressing the remote control button, numbers are displayed in the Ir remote control key window. If the number is not displayed, protocol of that remote control is not compatible. In this case, choose another remote control.

H. To change the icon,



Click the icon change button.

Then icon list is displayed. Select one whatever you want and save it.



4. Troubleshooting

Q. The application program does not execute.

Target application program is not installed or added. When the program cannot be found, the icon of that program is not displayed in the Applications window. Select the corresponding program and set the correct path of that.

Q. The key of target program doesn't work.

Check that if the target program's key is set correctly as below

- Select the key's icon and then modify Ir key mapping.
- Press the remote control button toward Ir sensor of USB downloader.
- Save the loaded key and press that remote control button whether it works correctly.

Q. The remote control signal value is not constant.

The value of that is not accurate. This is not serious problem, but if the value is not constant continuously, please change the remote control to another one

Q. Once the remote control button is pressed, two or more functions are worked.

This result is caused from that the same key is received twice or more. In this case, press the button shorter than before or change your remote

control.

Q. Although the remote control button is pressed, the program does not work.

Set the key code for foreground target program.

Q. All the remote control keys are received to same value.

The protocol of that remote control is not compatible. Choose another one.

Q. The Pclr program is needed to upgrade.

Visit the website of Etronics Corp. or use the menu 'Contents from internet' on the toolbar.

<http://www.etroneics.co.kr>

Q. The received value changes according to the distance or angle of remote control.

The receive sensitivity of Ir remote control changes according to the distance or angle. For preventing from receiving error signal, use the remote control unit within a range of about 10 meters and angle of up to 30 degrees aiming of the remote sensor.

5. FAQ

What is the principle of remote control unit?

Major part of home receiver is sold with remote control of various styles. The remote control reception is basically used one-way infrared signal. This follows the standard signal format according to manufacturers or models, but there are some cases that use signal format of the manufacturer's own.

Does Pclr program handle all the remote control signals?

The program handles all the received signal, but this varies according to receiving driver or receiver. If the remote control signal is not standard one, there is some problem to receive it.

What kind of function can be used by Pclr program?

Keyboard/mouse/program interface and system etc. can be controlled with this program.

6. Help

Etronics Corp. servives various information of remote control sensor through website.

Please connect our homepage, <http://www.etrionics.co.kr>